Ministry of
Northern Development
and Mines
Ontario
Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

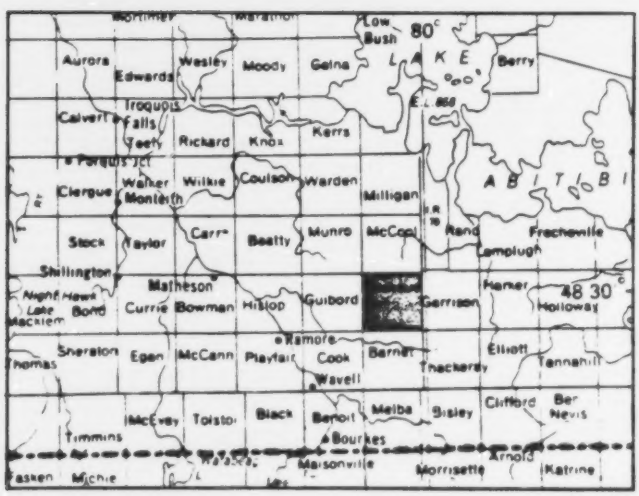
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 382

MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the Staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

88-02294/

NTS Number 42A/08, 42A/09

Mining Claim Map Number

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1988: Michaud Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio 382, compiled by the staff of the Resident Geologist's Office, Kirkland Lake, 60 p, and 3 maps.

Original Compilation by: Mike Woods and Dave Mimeault
March 25, 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 13
Drill Hole Summary 19
Airborne Geophysical Survey Data 40
Geochemical Survey Data 41
Miscellaneous Data 42
Newspaper Clipping File 43
ODM General Index Search 44
Selected References 46
Notes and Addenda 60

ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 2
Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	M.W.
2	Assessment Files Research Office, Toronto	NO	M.W.
3	ODM General Index; 9 volumes	YES	D.M.
4	Catalogue of Airborne Geophysical Surveys (ODM)	-	-
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	M.W.
6	ODM Industrial Mineral Reports	NO	M.W.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	M.W.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	M.W.
9	Newspaper Clippings File	NO	M.W.
10	GSC Index to Publications	NO	M.W.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	M.W.
12	OGS Index Maps	YES	M.W.
13	Source Mineral Deposit Records (O.G.S.)	YES	M.W.
14	Author - Subject Articles File	YES	M.W.
15	Miscellaneous Papers: ODM & OGS	YES	M.W.
16	ODM Geological Circulars: OGS Study Series	NO	M.W.
17	ODM Preliminary Reports: ODM Bulletins	YES	M.W.
18	ODM – OGS Open File Reports	NO	M.W.
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	M.W.
20	OGS Aggregate Resources Inventory Papers	NO	M.W.
21	OGS Mineral Potential Maps	YES	M.W.
22	Canadian University Graduate Theses - Henderson	NO	M.W.

METALS AND MINERALS REFERENCES LIST

△ anh . . . . . Anhydrite
△ ank . . . . . Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . Apatite
△ arg . . . . . Argentite
△ As . . . . . Arsenic
△ asp . . . . . Arsenopyrite
▲ asb . . . . . Asbestos
△ ba. . . . . Barite
△ be. . . . . Beryl
△ Bi. . . . . Bismuth
△ bn . . . . . Bornite
△ bran . . . . . Brannerite
△ bruc . . . . . Brucite
△ Cd . . . . . Cadmium
▲ calc. . . . . Calcite
▲ carb . . . . . Carbonate
△ cel . . . . . Celestite
△ cc. . . . . Chalcocite
▲ cp. . . . . Chalcopyrite
△ ch. . . . . Chert
△ clay . . . . . Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . Columbite
△ Cu . . . . . Copper
△ cor . . . . . Corundum
▲ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . Feldspar
△ fl . . . . . Fluorite (flurospar)
△ fu. . . . . Fuchsite
▲ gn. . . . . Galena
△ gt . . . . . Garnet
△ goe . . . . . Goethite
▲ Au . . . . . Gold
▲ gf . . . . . Graphite
△ gl . . . . . Gravel
▲ gyp. . . . . Gypsum
▲ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
▲ mag . . . . . Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . Marl
△ mi . . . . . Mica
△ ml . . . . . Millerite
▲ mo . . . . . Molybdenite
△ Mo . . . . . Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . Niccolite
△ Ni. . . . . Nickel
△ Nb . . . . . Niobium
△ Pd . . . . . Palladium
△ peat . . . . . Peat
△ pent . . . . . Pentlandite
△ Pt. . . . . Platinum
▲ py . . . . . Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . Pyrolusite
▲ po . . . . . Pyrrhotite
▲ q . . . . . Quartz
▲ qcv . . . . Quartz carbonate vein
△ ra. . . . . Radioactive minerals
△ RE . . . . . Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . Scheelite
▲ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . Silver
△ sl . . . . . Slate
△ sm . . . . . Smaltite
△ sod . . . . . Sodalite
▲ spec . . . . . Specularite
▲ sp. . . . . Sphalerite
△ spd . . . . . Spodumene
△ staur . . . . . Staurolite
△ stib. . . . . Stibnite
△ st . . . . . Stone
△ talc. . . . . Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . Thorite
△ Th . . . . . Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
▲ tour . . . . . Tourmaline
△ trap . . . . . Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . Uranium
△ verm . . . . . Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . Zinc
△ zr . . . . . Zircon

▲ qv. . . . . quartz vein

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MICHAUD TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Amax Exploration	Au	-	Kirkland Lake Resident Geologist Assessment Files	DDH #KX-26-68 assayed 0.01oz Au/t over 5 feet (1)
B_1	Falconbridge Ltd. "Garrison Creek Project" "PN-620"	Au	-	Kirkland Lake Resident Geologist Assessment Files	DDH #620-01 0.01oz Au/t over 5 feet (54)
B_2		Au		" "	DDH #620-03 0.16oz Au/t over 2 feet (56)
B_2		Au		" "	DDH #620-04 0.13oz Au/t over 4 feet (57)
B_3		Au		" "	DDH #620-05 0.01oz Au/t over 5 feet (58)
B_4		Au		" "	DDH #620-06 0.24oz Au/t over 5 feet (59)
B_5		Au		" "	DDH #620-08 0.01oz Au/t over 1 foot (61)
B_2		Au		" "	DDH #620-09 0.18oz Au/t over 4 feet (62)
B_4		Au		" "	DDH #620-11 0.41oz Au/t over 5 feet (64)

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
B_5	Falconbridge Ltd. "Garrison Creek Project" "PN-620"	Au		Kirkland Lake Resident Geologist Assessment Files	DDH #620-12 0.03oz Au/t over 6 feet (65)
B_2		Au		" "	DDH #620-13 0.52oz Au/t over 4 feet (66)
B_2		Au		" "	DDH #620-14 0.18oz Au/t over 5 feet (67)
B_4		Au		" "	DDH #620-15 0.01oz Au/t over 2 feet (68)
B_7		Au		" "	DDH #620-17 0.01oz Au/t over 5 feet (70)
B_8		Au		" "	DDH #620-18 0.01oz Au/t over 6 feet (71)
B_5		Au		" "	DDH #620-19 0.01oz Au/ton over 5 feet (72)
B_9		Au		" "	DDH #620-20 0.02oz Au/ton over 5 feet (73)
B_{10}		Au		" "	DDH #620-21 0.07oz Au/ton over 5 feet (74)

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
B 10	Falconbridge Ltd. "Garrison Creek Project" "PN-620"	Au		Kirkland Lake Resident Geologist Assessment Files	DDH #620-22 0.03oz Au/ton over 4 feet (75)
C_1	Falconbridge Ltd. "Thibault Claims"	Au		Kirkland Lake Resident Geologist Assessment Files	DDH #659-04 0.2oz Au/ton over 1 foot (79)
C_2		Au		" "	DDH #659-05 0.04oz Au/ton over 1 foot (80)
C_3		Au			DDH #659-01 1.0oz Au/ton over 1 foot (76)
C_4		Au		" "	DDH #659.03 0.3oz Au/ton over 1 foot (78)
D_1	Falconbridge Nickel Mines Ltd. "Marchaud Option"	Au		Kirkland Lake Resident Geologist Assessment Files	DDH #M-2-80 0.02oz Au/ton over 6 feet (82)
D_2		Au		" "	DDH #M-4-80 0.03oz Au/ton over 10 feet (83)
		Pb		" "	Trenching company #18 map ref. 11A 127N 311E Trench #2727 .59% Pb

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
D	Falconbridge Nickel Mines Ltd. "Marchaud Option"	Au		Kirkland Lake Resident Geologist Assessment Files	Trenching co. #18 map ref. 11B 129N 311E Trench #2711A Au 350 ppb over 5 feet
		Au		" "	Trenching co. #18 map ref. 11B 129N 311E Trench #2710 Au 1220 ppb over 3 feet
		Au,Pb,Ag		" "	Trenching co. #18 map ref. 11B 130N 311E Trench #2707 Au 500 ppb, Ag 0.45oz/ton Pb 0.19% over 2 feet
E_1	Marchaud Mines Ltd.	Au	-	Kirkland Lake Resident Geologist Assessment Files ODM Map 1947-3 Michaud Tp. ODM 1948, Vol.57 pt. 4, p.21-22	DDH #6 0.07oz Au/ton over 15 feet (152)
E_1		Au	-	" "	DD #8 0.07oz Au/ton over 5 feet (153)

MICHAUD TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
E_1	Marchaud Mines Ltd.	Au	-	Kirkland Lake Resident Geologist Assessment Files ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.21-22	DDH #9 0.09oz Au/ton over 7 feet(154)
E_1		Au	-	" "	DDH #10 0.08oz Au/ton over 20 feet (155)
E_2		Au	-	" "	DDH #19 0.13oz Au/ton over 5 feet(137)
E_2		Au	-	" "	DDH #20A 0.21oz Au/ton over 5 feet(139)
F_1	Moneta Porcupine Gold Mines Ltd. "Miller Claims"	Au	-	Kirkland Lake Resident Geologist Assessment Files ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.23	DDH #1 0.02oz Au/ton over 6 feet(161)
F_1		Au	-	" "	DDH #2 0.02oz Au/ton over 5 feet(162)
F_1		Au	-	" "	DDH #3 0.03oz Au/ton over 5 feet(163)

GDIF FORM NO. 1

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
F_2	Moneta Porcupine Gold Mines Ltd. "Miller Claims"	Au	-	Kirkland Lake Resident Geologist Assessment Files ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.23	DDH #5 (166) 0.56oz Au/ton over 3 feet
F_2		Au	-	" "	DDH #6 (167) 0.04oz Au/ton over 3 feet
F_2		Au	-	" "	DDH #7 (168) 0.14oz Au/ton over 1 foot
F_2		Au	-	" "	DDH #8 (169) 0.16oz Au/ton over 10 feet
F_3		Au	-	" "	DDH #10 (171) 0.2oz Au/ton over 6 feet
F_4		Au	-	" "	DDH #14 (175) 0.02oz Au/ton over 2 feet
G_1	Nahanni Mines Ltd. "Oct. & Sept. Grid"	Au	-	Kirkland Lake Resident Geologist Assessment Files	DDH #M-86-8 (179) 362 ppb Au over 5 feet
G_2		Au	-	" "	DDH #M-86-10 (181) 0.037oz Au/ton over 5 feet

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
G_3	Nahanni Mines Ltd.	Au	-	Kirkland Lake Resident Geologist Assessment Files	DDH #M-86-12 (183) 0.073oz Au/ton over 5 feet
H_1	Noranda Exploration Co. Ltd. "Windjammer Option"	Au	-	Kirkland Lake Resident Geologist Assessment Files	DDH #WJ-85-1 (203) 0.09oz Au/ton over 2 feet
H_2		Au	-	" "	DDH #WJ-85-2 (204) .125oz Au/ton over 2 feet
J_1	Redstone Resource Inc.	Au	-	Kirkland Lake Resident Geologist Assessment Files	DDH #M-82-1 (205) 1370 ppb Au over 5 feet
J_2		Au	-	" "	DDH #M-82-4 (208) 1200 ppb Au over 5 feet
K_1	Wright-Hargreaves Mines Ltd.	Au	-	Kirkland Lake Resident Geologist Assessment Files ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p. 24-25	DDH #2 (231) 0.10oz Au/ton over 4 feet
K_2		Au	-	" "	DDH #3 (232) 0.03oz Au/ton over 5 feet

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
K_3	Wright-Hargreaves Mines Ltd.	Au	-	Kirkland Lake Resident Geologist Assessment Files ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.24-25	DDH #10 (239) 0.03oz Au/ton over 1 foot
M	Wright-Hargreaves Mines Ltd. "Caswell Group"	Au	C0304	OGS 1968 MRC 11 p.122 OGS 1948 AR Vol.57 pt.4, p.19-20	DDH #1 (240) 0.20oz Au/ton over 1 foot
		Au	-	" "	DDH #2 (241) 0.15oz Au/ton over 2 feet
		Au	-	" "	DDH #3 (242) 0.08oz Au/ton over 3 feet
		Au	-	" "	DDH #4 (243) 0.07oz Au/ton over 13 feet
N	Anglo-Huronian Ltd.	Au	-	ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.19	"1944-46 magnetic survey and 7 drill holes (DDH #3-7 on data map) 1,762 feet by Anglo Huronian Ltd. Felsic intrusives and mafic volcanics contained low gold values."

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
P	Dunmar Mines Ltd.	Au	-	ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.20	"1947 seven drill holes (DDH #47-53 on data map) 4,861 feet drilled by Dunmar Mines Ltd. Felsic intrusives are mineralized with pyrite and contain quartz stringers with low gold values."
Q	A. Kokotow	Au	-	ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.21	"Pits in mafic volcanics cut by dikes of syenite porphyry put down by A. Kokotow. Pyritized porphyry and basalt contain quartz stringers with low gold values."
R	Michaud Porcupine Gold Mines Ltd.	Au	-	ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.22-23	"1937-38 magnetic survey and 11 drill holes (DDH #156-160 on data map) 4,838 feet by Michaud Porcupine Mines Ltd. 1946 - drilling by Michaud Porcupine Mines Ltd. and Anglo-Huronian Ltd. Quartz veins in granite contains low values in gold."

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
S	Transaurum Mines Ltd.	Au	-	ODM Map 1947-3 Michaud Tp. ODM 1948, Vol. 57 pt. 4, p.23-24	"Mafic volcanics are cut by major felsic intrusives and both rock types by porphyry dikes. 1946-47 six drill holes (DDH #222-227 on data map) by Transaurum Mines Ltd. Parts of the intrusive have a reddish alteration and contain quartz stringers and pyrite."

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TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Amax Exploration Inc.		67		68 67															
2	Amax Mineral Exploration "Michaud 2"	79																		
3	Amax Mineral Exploration "Michaud 3"	79																		
4	Anglo-Huronian Ltd.				46			46				45								
5	Asarco Explorations Co. Ltd. "Perry Lake Claims Group"	84			85							84	84							
6	Bienias, D; Bosum, J; Meunier, D.	85																		
7	Canadian Johns-Manville Co. Ltd. "Southeast McCool Group"											63	63							
8	Canadian Johns-Manville Co. Ltd. "Little Pike Grp."											64	64							
9	Clodan Gold Mines Ltd.											46								
10	Cominco Limited	77																		

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
11	Consolidated Ranwick Uranium Mines Ltd.								54		54									
12	Dalhousie Oil Co. Ltd.				66															
13	Dunmar Mines Ltd.	48			46 47															
14	Falconbridge Ltd. "Dunmar Prop."											84								
15	Falconbridge Ltd. "Garrison Creek Proj." "PN-620"	84		84	84							84			84					
16	Falconbridge Ltd. "Garrison Creek Proj." "PN-622-G"		84									85			85					
17	Falconbridge Ltd. "Thibault Claims"				84 85							85			85					
18	Falconbridge Nickel Mines Ltd. (Marchaud Option)	84		79	79 80							83	82		84					
19	Garrison Creek Consolidated Mines Ltd.							81												

GDP FORM NO. 2

MICHAUD TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
20	Gold Fields Canadian Mining Ltd.				84							82	82							
21	Golden Range Resources Inc.	86			86							84	84							
22	Guy-Guibord Gold Mines Ltd							39												
23	Hennessey, A.W.								86	86										
24	Hollinger Consolidated Gold Mines Ltd. "Group 2 East"				72							72	72							
25	Kidd Creek Mines Ltd. "Michaud 44"											86	86							
26	Kruk, T.				52							52								
27	Labrador Mining & Expl. Ltd. "Munro Project"											85	85							
28	Lacana Mining Corp. "Goldfieds Option"				86															

TYPE OF WORK

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
29	Mangan, J.J. "Dyman Prospecting Synd."				55 61														
30	Marchaud Mines Ltd.	48			46 47														
31	Michaud Porcupine Gold Mines Ltd.	44			38 46							38							
32	Minefinders Ltd.																		
33	Moneta Porcupine Mines Ltd. "Miller Claims"	46 47			46 47							37 45					37		
34	Moses, J.R.				83														
35	Nahanni Mines Ltd. "Oct. & Sept. Grid"	83			83 86							83	83						
36	Nahanni Mines Ltd. "West Group"				83							83							
37	Noranda Exploration Co. Ltd. "Barnet 1-79"							84	84										
38	Noranda Exploration Co. Ltd. "Windjammer Option"				85														

GDIF FORM NO. 2

TYPE OF WORK

EXPLORATION DATA
filed at the
RESIDENT GEOLOGIST'S OFFICE
KIRKLAND LAKE

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
39	Norbaska Mines Ltd.																			
40	O'Donnell, John			75								83	83							
41	Redstone Resources Inc.				82							80	80							
42	Renzy Mines Ltd.				69 70															
43	Selco Inc. "Renzy Opt."											83		83						
44	St. Joe Canada Inc.								86	86		83								
45	Tesluk, J.				81															
46	Transaurum Mines Ltd.	47			46 47															
47	Wadge Mines Ltd.											47 59								
48	Windjammer Power & Gas Ltd.	80			80							80								
49	Wright Hargreaves Mines Ltd.				47 49															

MICHAUD TOWNSHIP

18 MICHAUD TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
50	Wright Hargreaves Mines Ltd. "Caswell Group"				49														

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Ma. Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Amax Exploration Inc.	KX-26-68	1/68	343°	-47°	234'	351'	cp,py,po,qcv	Au,Cu
2	" "	KX-25-67	12/67	343°	-50°	138'	361'	cp,asb,qcv	-
3	Anglo-Huronian Ltd.	13	1946	180°	-45°	159'	364'	py	-
4	" "	15A	1946	36°	-50°	256'	610'	py,spec	-
5	" "	16	1946	180°	-50°	303'	780'	-	-
6	" "	17	1946	180°	-51°	341'	741'	py	-
7	" "	18	1946	180°	-	300'	1051'	py,qcv	
8	Asarco Expl. Co. Ltd.	PL-01	6/85	-	-90°	91'	96'	-	-
9	" "	PL-02	6/85	-	-90°	113'	118'	-	-
10	" "	PL-03	6/85	-	-90°	43'	43'	abandoned	-
11	" "	PL-3A	6/85	-	-90°	34'	40'	-	-
12	" "	PL-04	6/85	-	-90°	3'	6'	-	-
13	" "	PL-04A	6/85	-	-90°	2'	2'	abandoned	-
14	" "	PL-05	6/85	-	-90°	6'	9'	-	-
15	" "	PL-06	6/85	-	-90°	35'	39'	-	-
16	Asarco Expl. Co. Ltd. "Perry Lake Claims Grp."	PL-07	6/85	-	-90°	31'	38'	-	-

GDIP FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date
** - No Drill logs

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
17	Asarco Expl. Co. Ltd. "Perry Lake Claims Grp."	PL-08	6/85	-	-90°	26'	31'	-	-
18	" "	PL-09	6/85	-	-90°	77'	80'	-	-
19	" "	PL-10	6/85	-	-90°	105'	116'	-	-
20	" "	PL-14	6/85	-	-90°	9'	9'	abandoned	-
21	" "	PL-14A	6/85	-	-90°	11'	16'	-	-
22	" "	PL-15	6/85	-	-90°	46'	51'	-	-
23	" "	PL-16	6/85	-	-90°	79'	84'	-	-
24	" "	PL-17	6/85	-	-90°	64'	69'	-	-
25	" "	PL-18	6/85	-	-90°	19'	26'	-	-
26	" "	PL-19	6/85	-	-90°	59'	64'	-	-
27	" "	PL-20	6/85	-	-90°	12'	16'	-	-
28	" "	PL-21	6/85	-	-90°	23'	28'	-	-
29	" "	PL-22	6/85	-	-90°	53'	58'	-	-
30	" "	PL-23	6/85	-	-90°	64'	69'	-	-
31	" "	PL-24	6/85	-	-90°	55'	59'	-	-
32	" "	PL-25	6/85	-	-90°	53'	58'	-	-

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
33	Asarco Expl. Co. Ltd. "Perry Lake Claim Grp."	PL-26	6/85	-	-90°	128'	133'	-	-
34	" "	PL-27	6/85	-	-90	140'	145'	-	-
35	" "	PL-28	6/85	-	-90°	14'	19'	-	-
36	" "	PL-29	6/85	-	-90°	9'	14'	-	-
37	" "	PL-30	6/85	-	-90°	39'	41'	-	-
38	" "	PL-31	6/85	-	-90°	17'	22'	-	-
39	" "	PL-32	6/85	-	-90°	22'	26'	-	-
40	" "	PL-33	6/85	-	-90°	212'	216'	-	-
41	Dalhousie Oil Co. Ltd.	DM66-1	11/66	160°	-50°	160'	869'	py,hem,qcv	-
42	" "	DM66-2	11/66	340°	-50°	174'	1260'	py,qcv,gf	-
43	Dunmar Mines, Ltd.	5	1946	170°	-34°	7'	780'	py,qv	-
44	" "	6	1946	0°	-62°	109'	628'	py,qv	-
45	" "	7	1946	-	-	128'	652'	py,qv	-
46	" "	8	1946	0°	-60°	86'	588'	py	-
47	" "	9	1947	180°	-63°	91'	791	-	-

ODIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
48	Dunmar Mines Ltd.	10	1947	0°	-60°	73'	421'	-	-
49	" "	11	1947	0°	-50°	136'	1003'	py	-
50	" "	12	1947	-	-50°	110'	-	abandoned	-
51	" "	12b	1947	-	-50°	118'	140'	abandoned	-
52	" "	13	1947	-	-	67'	-	abandoned	-
53	" "	14	1947	180°	-90°	300'	300'	abandoned	-
54	Falconbridge Ltd. "Garrison Creek Proj." "PN-620"	620-01	9/84	150°	-45°	86'	979'	py,qcv	Au
55	" "	620-02	9/84	150°	-45°	50'	988'	py,qcv	Au
56	" "	620-03	9/84	0°	-55°	42'	706'	py,qcv	Au
57	" "	620-04	10/84	0°	-55°	64'	1392'	py,q,qcv,cp	Au
58	" "	620-05	9/84	180°	-45°	216'	788'	py,qcv	Au
59	" "	620-06	9/84	180°	-45°	204'	698'	py,qcv	Au
60	" "	620-07	9/84	180°	-45°	204'	220'	-	-
61	" "	620-08	10/84	180°	-53°	199'	850'	py	Au
62	" "	620-09	10/84	0°	-55°	62'	1446'	py,qcv,q,VG?	Au

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

GDIF FORM NO. 3

MICHAUD TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
63	Falconbridge Ltd. "Garrison Creek Proj." "PN-620"	620-10	10/84	180°	-45°	214'	745'	py,qcv	Au
64	" "	620-11	10/84	180°	-45°	198'	697'	py,gyp,qcv	Au
65	" "	620-12	10/84	135°	-48°	76'	1153'	py,qcv,q	Au
66	" "	620-13	11/84	0°	-60°	62'	1503'	py,qcv,q	Au
67	" "	620-14	11/84	0°	-60°	67'	1486'	qcv,py,q,gn	Au
68	" "	620-15	11/84	180°	-45°	222'	622'	py,qcv	Au
69	" "	620-16	11/84	180°	-45°	214'	461'	py,qcv	Au
70	" "	620-17	11/84	0°	-45°	224'	996'	py,qcv	Au
71	" "	620-18	11/84	180°	-45°	284'	1,206'	py,qcv,q,cp	Au
72	" "	620-19	11/84	180°	-55°	174'	936'	py,qcv	Au
73	" "	620-20	11/84	0°	-45°	111'	656'	py,qcv	Au
74	" "	620-21	11/84	135°	-45°	9'	126'	py,qcv	Au
75	" "	620-22	11/84	180°	-45°	12'	172'	py,qcv	Au
76	Falconbridge Ltd. "Thibault Claims"	659-01	12/84	180°	-45°	81'	172'	py,qcv,hem.q	Au

! - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
77	Falconbridge Ltd. "Thibault Claims"	659-02	12/84	180°	-45°	74'	157'	py,q,qcv	Au
78	" "	659-03	12/84	180°	-45°	68'	153'	py,hem	Au
79	" "	659-04	10/85	0°	-50°	65'	221'	py,qcv	Au
80	" "	659-05	10/85	180°	-50°	53'	188'	py,po	Au
81	" "	659-06	10/85	0°	-45°	4'	130'	qcv	Au
82	Falconbridge Nickel Mines Ltd.	M-2-80	2/80	180°	-45°	54'	398'	py,qcv,q	Au
83	" "	M-4-80	3/80	0°	-45°	90'	396'	qcv,q	Au
84	" "	FMR-79-01	8/79	-	-90°	29'	34'	py	Cu,Pb, Zn,Mo,Ni Ag,Au
85	" "	FMR-79-02	8/79	-	-90°	40'	42'	-	Cu,Pb Zn,Mo,Ni Ag,Au
86	" "	FMR-79-03	8/79	-	-90°	32'	34'	-	Cu,Pb Zn,Mo,Ni Ag,Au
87	" "	FMR-79-04	8/79	-	-90°	36'	38'	-	Cu,Pb Zn,Mo,Ni Ag,Au

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

MICHAUD TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
88	Falconbridge Nickel Mines Ltd.	FMR-79-05	8/79	-	-90°	25'	27'	py	Cu, Pb Zn, Mo, Ni Ag, Au
89	" "	FMR-79-06	8/79	-	-90°	19'	19'	abandoned	Cu, Pb Zn, Mo, Ni Ag, Au
90	" "	FMR-79-07	8/79	-	-90°	23'	25'	-	Cu, Pb Zn, Mo, Ni Ag, Au
91	" "	FMR-79-08	8/79	-	-90°	45'	48'	-	Cu, Pb Zn, Mo, Ni Ag, Au
92	" "	MI-80	2/80	0°	-45°	112'	694'	py,qcv	-
93	Gold Fields Canadian Mining Ltd.	MT-84-01	4/84	-	-90°	79'	89'	-	Cu, Zn Au, Ag
94	" "	MT-84-02	4/84	-	-90°	95'	100'	-	Cu, Zn Au, Ag
95	" "	MT-84-03	4/84	-	-90°	110'	113'	-	Cu, Zn Au, Ag
96	" "	MT-84-04	4/84	-	-90°	100'	103'	py,qcv	Cu, Zn Au, Ag

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
97	Gold Fields Canadian Mining Ltd.	MT-84-05	4/84	-	-90°	138'	143'	-	Cu, Zn Au, Ag
98	" "	MT-84-06	4/84	-	-90°	65'	71'	py	Cu, Zn Au, Ag
99	" "	MT-84-07	4/84	-	-90°	50'	54'	-	Cu, Zn Au, Ag
100	" "	MT-84-08	4/84	-	-90°	43'	48'	py	Cu, Zn Au, Ag
101	" "	MT-84-09	4/84	-	-90°	63'	64'	qcv	Cu, Zn Au, Ag
102	" "	MT-84-10	4/84	-	-90°	84'	89'	-	Cu, Zn Au, Ag
103	" "	MT-84-11	4/84	-	-90°	53'	55'	qcv	Cu, Zn Au, Ag
104	" "	MT-84-12	4/84	-	-90°	118'	123'	py, qcv	Cu, Zn Au, Ag
105	" "	MT-84-13	5/84	-	-90°	228'	228'	incomplete	Cu, Zn Au, Ag
106	" "	MT-84-14	5/84	-	-90°	63'	67'	py, qcv	Cu, Zn Au, Ag

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole

GOIF FORM NO. 1

MICHAUD TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
107	Gold Fields Canadian Mining Ltd.	MT-84-15	5/84	-	-90°	67'	69'	py,qcv	Cu,Zn Au,Ag
108	" "	MT-84-16	5/84	-	-90°	49'	53'	py,qcv	Cu,Zn Au,Ag
109	" "	MT-84-17	5/84	-	-90°	87'	90.2	py,qcv	Cu,Zn Au,Ag
110	" "	MT-84-18	5/84	-	-90°	57'	59'	py,hem	Cu,Zn Au,Ag
111	" "	MT-84-19	5/84	-	-90°	286'	288'	hem	Cu,Zn Au,Ag
112	" "	MT-84-20	5/84	-	-90°	120'	123'	hem	Cu,Zn Au,Ag
113	" "	MT-84-21	5/84	-	-90°	92'	95'	-	Cu,Zn Au,Ag
114	" "	MT-84-22	5/84	-	-90°	68'	70'	-	Cu,Zn Au,Ag
115	" "	MT-84-23	5/84	-	-90°	92'	93'	qcv	Cu,Zn Au,Ag
116	" "	MT-84-24	5/84	-	-90°	124'	126'	hem	Cu,Zn Au,Ag

! - Core stored at Swastika Drill Core Storage Library
* - length of Overburden down drill hole

GDIP FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
117	Golden Range Resources Inc.	GR-86-01	6/86	0°	-50°	73'	405'	mag,py q,gf,po	-
118	" "	GR-86-02	6/86	0°	-45°	162'	526'	qcv,sp, py,.q	-
119	Hollinger Consolidated Gold Mines Ltd. "Group 2 East"	GM1-72	1/72	180°	-55°	56'	476'	qcv,asb,po	Cu,Zn,Ni Ag,Pb,Au
120	" "	GM2-72	1/72	210°	-55°	101'	913'	py,qcv,po	Cu,Zn,Ni Ag,Pb,Au
121	Kruk, T.	2	5/52	210°	-45°	101'	508'	serp	-
122	Lacana Mining Corp. "Goldfield Opt."	MD-1-86	2/86	360°	-50°	119'	678'	py,qcv,q calc,carb	-
123	" "	MD-2-86	3/86	360°	-55°	82'	679'	py,qcv,q	-
124	Mangan, J.J. "Dyman Prospecting Syndicate"	M-1	6/55	5°	-50	-	148'	py,po,mag cp,qcv,q	-
125	" "	M-2	6/55	10°	-45°	-	260'	py,qcv,calc	-
126	" "	M-3	xx	20°	-80°	-	270'	py,q,cp	-
127	" "	M-4	xx	145°	-50°	1'	271'	py,qcv	-

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

MARCHAUD TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
128	Mangan, J.J. "Dyman Prospecting Syndicate"	M-6	xx	10°	-70°	2'	217'	py,q,calc	-
129	" "	M-7	xx	192°	-63°	1'	298'	py,po,qcv	-
130	" "	M-8	6/61	90°	-45°	26'	322'	py,qcv	-
131	Marchaud Mines Ltd.	12	xx	190°	-51°	60'	710'	py,qcv,mag	-
132	" "	13	xx	195°	-52°	48'	968'	py,qcv,cp,q	-
133	" "	14	xx	193°	-52°	31'	734'	py,qcv,spec	-
134	" "	15	xx	-	-90°	150'	497'	py,mag	-
135	" "	16	xx	-	-90°	125'	358'	qcv,gn,mag,py	-
136	" "	18	xx	195°	-50°	90'	479'	py,mag,qcv	-
137	" "	19	xx	20°	-48°	55'	714'	-	Au
138	" "	20	xx	15°	-50°	56'	60'	-	-
139	" "	20A	xx	15°	-46°	50'	604'	q	Au
140	" "	21A	xx	195°	-50°	164'	176'	-	-
141	" "	22	xx	130°	-47°	110'	695'	py,qcv,q,VG	-

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

GDIP FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
142	Marchaud Mines Ltd.	23	xx	15°	-60°	82'	527'	py,qcv	-
143	" "	24	xx	186°	-60°	100'	250'	py,mo	-
144	" "	25	xx	179°	-62°	141'	723'	py,qcv	-
145	" "	26	xx	182°	-60°	130'	500'	py,cp,qcv	-
146	" "	27	9/46	181°	-58°	152'	497'	py	-
147	" "	28	xx	195°	-50°	28'	876'	q	-
148	" "	29	xx	180°	-60°	50'	1098'	py	-
149	" "	30	xx	183°	-50°	116'	366'	-	-
150	" "	31	xx	5°	-53°	115'	706'	py,qcv	-
151	" "	32	3/47	185°	-50°	111'	1212'	mag,q,py cp,hem, carb,qcv	-
152	" "	6	1946	192°	-35°	4'	840'	-	Au
153	" "	8	1946	194°	-41°	8'	1026'	-	Au
154	" "	9	1946	194°	-45°	19'	555'	-	Au
155	" "	10	1946	195°	-50°	42'	784'	-	Au

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

MICHAUD TOWNSHIP

DRILLHOLE SUMMARY

Drill Location Number	Map Staking Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
	156	Michaud Porcupine Gold Mines Ltd.	6	xx	195°	-50°	107'	1081'	py,qcv,q carb,hem,cp	-
	157	" "	8	xx	195°	-50°	104'	771'	-	-
	158	" "	9	xx	-	-	104°	492'	-	-
	159	" "	12	xx	-	-	100'	279'	-	-
	160	" "	4	xx	16°	-50°	108'	742'	py,qcv,serp	-
	161	Moneta Porcupine Mines Ltd. "Miller Claims"	1	6/46	345°	-40°	10'	1050'	py,qcv,q carb	Au
	162	" "	2	6/46	165°	-40°	12'	475'	py,qcv,q spec,cp	Au
	163	" "	3	7/46	165°	-43°	10'	622'	py,qcv,q carb,spec	Au
	164	" "	4A	8/46	165°	-52°	126'	126'	-	-
	165	" "	4B	9/46	165°	-55°	144'	943'	py,qcv,q cp,spec	Au
	166	" "	5	9/46	165°	-44°	68'	810'	py,qcv,q serp.	Au
	167	" "	6	9/46	165°	-43°	29'	348'	py,qcv,q carb,cp	Au

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* - Length of Overburden down drill hole
xx - No date

GDIP FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
168	Moneta Porcupine Mines Ltd. "Miller Claims"	7	10/46	170°	-45°	53'	641'	py,qcv,tour mo,cp,q	Au
169	" "	8	10/46	165°	-45°	52'	586'	py,qcv,carb spec	Au
170	" "	9	10/46	165°	-45°	22'	733'	py,qcv,spec serp	Au
171	" "	10	11/46	345°	-53°	56'	940'	py,serp,carb spec,q,qcv	Au
172	" "	11	1/47	345°	-46°	87'	1100'	py,serp,q carb,qcv	Au
173	" "	12	1/47	345°	-50°	72'	359'	py,serp,cp q,mo,qcv	Au
174	" "	13	2/47	345°	-51°	74'	407'	py,serp,mo cp,q,spec mag,qcv	Au
175	" "	14	3/47	165°	-46°	238'	1000'	py,spec,mag qcv	Au
176	" "	15	7/47	345°	-46°	240'	1388'	-	Au
177	Moses, J.R.	JM-3	7/83	0°	-45°	221'	230'	abandoned	-
178	" "	JM-4	8/83	0°	-45°	233'	1000'	py,qcv,carb mag	Au

GDIP FORM NO. 3

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* - Length of Overburden down drill hole
xx - No date

MICHAUD TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
179	Nahanni Mines Ltd. "Oct. & Sept. Grid"	M86-8	11/86	180°	-50°	57'	510'	py,qcv,carb hem,gf,po	Au
180	" "	M86-9	11/86	220°	-45°	9'	267'	py,q,qcv hem,po,gf dol,calc	Au
181	" "	M86-10	12/86	0°	-55°	41'	526'	py,qcv,calc hem,serp	Au
182	" "	M86-11	12/86	40°	-50°	11'	350'	serp,calc qcv	Au
183	" "	M86-12	12/86	0°	-55°	165'	456'	py,calc serp,carb	Au
184	" "	M86-13	12/86	0°	-60°	156'	676'	py,serp, calc,qcv	Au
185	" "	M83-7	11/83	350°	-60°	98'	501'	py,qcv,q carb,gf	Au
186	" "	M83-5	10/83	155°	-55°	113'	1178'	py,qcv,hem calc,carb, q,cp	Au
187	Nahanni Mines Ltd. "West Group"	R83-1	8/83	-	-90°	142'	144'	py,carb	Au
188	" "	R83-2	8/83	-	-90°	69'	78'	py,qcv,carb	Au

GDIP FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
-x - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
189	Nahanni Mines Ltd. "West Group"	R83-3	8/83	-	-90°	156'	162'	py	Au
190	" "	R83-4	8/83	-	-90°	117'	120'	py,qcv	Au
191	" "	R83-5	8/83	-	-90°	102'	109'	py	Au
192	" "	R83-6	8/83	-	-90°	138'	143'	py	Au
193	" "	R83-7	8/83	-	-90°	93'	97'	py,carb	Au
194	" "	R83-8	8/83	-	-90°	114'	118'	py	Au
195	" "	R83-9	8/83	-	-90°	107'	110'	py,qcv,carb	Au
196	" "	R83-10	8/83	-	-90°	120'	123'	py,qcv	Au
197	" "	R83-11	8/83	-	-90°	115'	120'	py,q,carb	Au
198	" "	R83-12	8/83	-	-90°	83'	87'	-	Au
199	" "	R83-13	8/83	-	-90°	124'	126'	py,qcv	Au
200	" "	R83-14	8/83	-	-90°	126'	130'	-	Au
201	" "	R83-15	8/83	-	-90°	159'	162'	-	Au
202	" "	M83-6	11/83	180°	-55°	123'	400'	py,qcv,q carb,po,cp	Au,Ag Cu,Pb

ODIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
203	Noranda Expl. Co. Ltd. "Windjammer Option"	WJ-85-1	1/85	340°	-55°	118'	840'	qcv,carb py,q,hem	Au,Ag
204	" "	WJ-85-2	1/85	340°	-55°	255'	951'	py,qcv,cp hem,carb calc	Au,Ag
205	Redstone Resources Inc.	M-82-1†	2/82	135°	-55°	110'	501'	py,qcv,gn cp,po,gf carb	Au,Ag
206	" "	M-82-2†	2/82	154°	-60°	74'	557'	py,qcv,po gf	Au
207	" "	M-82-3†	3/82	229°	-60°	154'	565'	py,qcv,gf po	Au
208	" "	M-82-4†	3/82	0°	-60°	87'	675'	py,qcv,hem cp	Au
209	Renzy Mines Ltd.	1†	1/69	314°	-50°	165'	917'	py,qcv,spec carb,mag	
21	" "	2†	1/69	139°	-45°	160'	1015'	py,qcv,calc cp,mag,spec carb	
21	" "	3†	11/69	192°	-48°	218'	659'	calc,po,py qcv,hem	

† - Core stored at Swastika Drill Core Storage Library
' - Length of Overburden down drill hole
xx - No date
* - No Drill logs

GDIP FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
212	Renzy Mines Ltd.	4†	12/69	10°	-50°	163'	525'	calc,hem,q py,qcv	
213	" "	5†	12/69	179°	-45°	162'	486'	py,qcv,mag cp,q	
214	" "	6†	1/70	177°	-45°	121'	547'	calc,mag,py qcv,q,cp	
215	" "	7†	1/70	177°	-45°	167'	512'	calc,py,qcv carb,mag,q	
216	" "	8†	2/70	170°	-45°	80'	574'	py,mag calc,qcv	
217	" "	9†	2/70	181°	-45°	200'	442'	py,qcv,calc	
218	" "	10†	3/70	178°	-45°	178'	501'	py,mag,qcv	
219	" "	11†	3/70	174°	-45°	244'	465'	py,calc,qcv	
220	" "	12†	4/70	1°	-45°	170'	565'	mag,calc,py	
221	Telsuk, J.	81-1	4/81	20°	-60°	205'	506'	py,serp,cp VG?,po,mag	
222	Transaurum Mines Ltd.	4	xx	30°	-44°	914'	1013'	-	
223	" "	5	xx	0°	-45°	69'	917	-	
224	" "	6	xx	0°	-38°	7'	1025	py,qcv, q,spec.	

GDIF FORM NO. 3

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* - Length of Overburden down drill hole
xx - No date
** - No Drill logs

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
225	Transaurium Mines Ltd.	7	xx	180°	-46°	75'	1100'	-	
226	" "	8	xx	-	-35°	9'	707'	py,mag	
227	" "	9	xx	-	-34°	7'	823'	py	
228	Windjammer Power & Gas	1	9/80	0°	-55°	135'	650'	mag,spec,py qcv,po	
229	" "	2	9/80	0°	-55°	161'	555'	py,mag, qcv,spec	
230	Wright-Hargreaves Mines Ltd.	1	xx	180°	-50°	197'	1011'	py,qcv	Au
231	" "	2	xx	180°	-50°	198'	1091'	carb,py calc,q	Au
232	" "	3	11/47	180°	-50°	132'	1114'	py	Au
233	" "	4	11/47	180°	-50°	127'	226'	py,calc	Au
234	" "	9	1/49	345°	-50°	184'	883'	py,qcv,q hem,carb	
235	" "	5A	11/47	0°	-50°	124'	724'	py	
236	" "	6	11/47	180°	-50°	89'	563'	-	
237	" "	7	11/47	0°	-50°	85'	1100'	q,qcv	
238	" "	8	1/49	0°	-50°	96'	999'	py,cp,spec	

GDIP FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden *	Total Length of Hole	Mineralization Noted in Leg	Assay Data Included for
239	Wright-Hargreaves Mines Ltd.	10	1/49	166°	-50°	185'	1002'	py,mag	All
240	Wright-Hargreaves Mines Ltd. "Caswell Group"	1	xx	180°	-50°	258'	597'	-	All
241	" "	2	xx	-	-50°	319'	1100'	hem	All
242	" "	3	xx	-	-50°	302'	1448'	calc,spec py,hem	All
243	" "	4	1/49	155°	-60°	325'	1229'	py,q,qcv	All

! - Core stored at Swastika Drill Core Storage Library
* - Length of Overburden down drill hole
xx - No date

GSCF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 1

MICHAUD TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
11	Aeromagnetic Surveys Ltd. Consolidated Ranwick Uranium Mines Ltd.	Magnetic Radiometric	1400'	N-S E-W	660' 2640'
23	H. Ferderber Geophysics Ltd. Hennessey, A.W.	Magnetic, Electromagnetic	250'	N-S	440'
37	Teraquest Ltd. Noranda Expl. Co. Ltd. "Barnet 1-79"	Magnetic Electromagnetic	100m 100m (328')	N-S	100m 100m (328')
44	Teraquest Ltd. St. Joe Canada Inc.	Magnetic Electromagnetic	80m 80m (262')	N-S N-S	100m 100m (328')

GOLF FORM 5

MICHAUD TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
1	Deep Soil Sampling	Cu,Pb,Zn,Ni	American Metal Climax Inc.	Kirkland Lake, Resident Geologist Assessment Files
16	Rock Analysis	Au	Falconbridge Ltd.	Kirkland Lake Resident Geologist Assessment Files

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Aerial Photographs

Black and White scale 1:1/4 mile
scale 1:1 mile

Landsat Data scale 1:500,000

Band 3 , 9/5/83
Band 4 , 31/2/83
Bands 1+2+4 , 2/10/83
Bands 1+2+4 , 9/5/83

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Falconbridge Nickel			
	The Northern Miner	Sep 13, 1984	
Garrison Harbour			
	The Northern Miner	Dec 14, 1967	
Garrison Township			
	The Northern Miner	Aug 20, 1981	
Golden Harker			
	The Northern Miner	Mar 28, 1968	
Golden Range			
	The Northern Miner	Dec 27, 1984	Dec 30, 1985
Merrex			
	The Northern Miner	Feb 26, 1948	
Nahanni			
	The Northern Miner	Feb 18, 1982 Aug 25, 1986	Jun 17, 1982
Norbaska			
	The Northern Miner	Jun 23, 1983	
Texpex			
	George Cross Newsletter	Oct 10, 1984	
Urban Quebec			
	The Northern Miner	- - 1981	

ODM GENERAL INDEX SEARCH

Words searched: Michaud Township

Index Volume	Listing:	Report Volume	Part	Page
2	Michaud Tp., Cochrane			
	Eskers	28	2	38
	photo	28	2	40
	Fish	28	2	5
	Forest fires; timber	28	2	6
	Gravel and sand plains	28	2	5, 40
	Lakes, character,	28	2	4
	see also Perry 1.			
	Rocks, diabase	28	2	29
	granite	28	2	34
	see also map 28b with 28(2)			
3	Michaud Tp., Cochrane			
	Granite	45	6	9
4	Michaud Tp., Cochrane			
	Geology and mining properties,			
	report on by J. Satterly	57	4	
5	Michaud Tp., Cochrane			
	Asbestos claims	61	5	26
	Esker	61	5	19
	Gold mining	61	2	69
	Rocks	61	5	7, 15
8	Michaud Tp., Cochrane dist.			
	iron	MRC011		122

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing	Report Volume	Part	Page

MICHAUD TOWNSHIP

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1970	Ontario Geological Map	ODMNA Map 2196	1:1 013 760
Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1971	Ontario Geological Map, East Central Sheet	ODMNA Map 2198	1:1 013 760
Boissoneau, A.N.	1965	Algoma-Cochrane Surficial Geology, Ontario	ODL & F Map S365	1:506 880
Boissoneau, A.N.	1965	Algoma, Sudbury, Timiskaming and Nippising Surficial Geology	ODL & F Map S465	1:506 880
Card, K.D. Sanford, B.V.	1983	Geology of the Timmins Map Sheet (NM-17)	GSC OF 956	1:1 000 000
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 3: East-Central Ontario, All Isotopic Systems	OGS Map P.2842	1:1 013 76
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253 440
Gordon, J.B.	1977	Gold Deposits of Ontario, East Central Sheet	OGS Map P.1228	1:1 013 760
Gordon, J.B.	1980	Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P.2300	1:1 013 760
Guillet, G.R.	1977	...ay and Shale Deposits of Ontario	OGS Map 2358 (MDC 15)	1:200 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scale and/or Report Page
Jost, M.	1977	Nickel Deposits of Ontario, East Central Sheet	OGS Map P.1062	1:1 013 760
Lumbers, S.B. Milne, V.G.	1979	Ontario Geological Map, Explanatory Text, Legend and Diagrams of Major Lithologies, Structures and Zones of Metamorphism	OGS Map 2391	1:1 013 760
Lumbers, S.B. Milne, V.G.	1979	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1 013 760
McCrank, G.F. Brown, P.A. Misiura, J.D.	1980	Plutonic Rocks in Ontario, with map	GSC OFR 706	
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500 000
Meyn, H.D. Howarth, J.R.	1977	Molybdenum Deposits of Ontario, East Central Sheet	OGS Map P.1246	1:1 013 760
Meyn, H.D. Robertson, J.A.	1975	Iron Deposits of Ontario, East Central Sheet, Districts of Thunder Bay, Algoma, Cochrane, Sudbury, Timiskaming and Nipissing	ODM Map P.1043	1:1 013 760
Ministry of Natural Resources	1985	Ontario Mineral Map	ODM Map 2472	1:1 584 000
Minnes, D.G. Masham, J.S. Scott, D.W. Vos, M.A. & Yundt, S.E.	1983	Industrial Minerals of Ontario	OGS Map P.2591	1:1 500 000
ODM	1969	Mining Divisions and Resident Geologists Districts	ODM Map 2189	1:1 584 000
ODM	1974	Ontario Mineral Map	ODM Map 2310	1:1 584 000

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Author	Date	Title	Reference	Map Scales and/or Report Pages
ODM	1977	Ontario Geology and Principal Minerals	ODM Map 2389 (Rev.)	1:4 224 000
ODMNA	1971	Ontario Geology and Principal Mineral Collecting Localities, Discover Ontario	ODMNA Map 2211	1:4 224 000
OGS	1986	Geologcial Highway Map, Northern Ontario	OGS Map 2506	1:1 600 000
Pyke, D.R., Ayres,L.D. & Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440
Robertson, J.A.	1976	Mineral Potential Map of Ontario, East Central Sheet	ODM Map P.1099	1:1 013 760
Robertson, J.A.	1982	Uranium and Thorium Deposits of Ontario, East Central Sheet, NTS 31/NW, 32/W, 41/N, 42	OGS Map P.2426	1:1 013 760
Springer, J.	1977	Ontario Mineral Potential, Timmins Sheet and Part of Noranda-Rouyn Sheet, Districts of Sudbury, Timiskaming and Cochrane	OGS Map P.1517	1:250 000
		GEOPHYSICAL MAPS		
Data Plotting Services Inc.	1984	Matheson-Black River Area (BRIM) Magnetic Survey Total Field, based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:80 000
Data Plotting Services Inc.	1985	Matheson-Black River Area (BRIM) Airborne Magnetic Survey Second Vertical Derivative based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS (1984)	MNDM Res. Geol. Office, Kirkland Lake, Ontario	1:100 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Dighem Surveys and Processing Inc.	1986	"Enhanced Shadow" Magnetics, Black River-Matheson Area (BRIM) based on Airborne Electromagnetic and Total Intensity Survey, Matheson-Black River Area, by Questor Surveys Ltd. for the OGS (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000
GSC	1970	Matheson, Cochrane District, Ontario	GSC Map 296G (Rev.)	1:63 360
GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario	GSC Map 295G (Rev.)	1:63 360
GSC	1970	Timmins, Cochrane, Timiskaming and Sudbury Districts, Ontario, Total Field Contour Map	GSC Map 7085G	1:250 000
GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario	GSC Map 8430	1:31 680
GSC	1970	Matheson, Cochrane District, Ontario	GSC Map 8431G	1:31 680
GSC	1970	Ramore East, Northeast Quarter, NTS 42A/8h (High Resolution Aeromagnetic)	GSC Map 20 146	1:25 000
GSC	1975	Ramore East, Northwest Quarter, NTS 42A/8h (High Resolution Aeromagnetic)	GSC Map 20 152	1:25 000
GSC	1975	Matheson East, Southeast Quarter, NTS 42A/9a (High Resolution Aeromagnetic)	GSC Map 20 147	1:25 000
GSC	1975	Matheson East, Southwest Quarter, NTS 42A/9b (High Resolution Aeromagnetic)	GSC Map 20 153	1:25 000
Middleton, R.S.	1976	Gravity Survey of Geological Structures in the Timmins and Matheson Area, NTS 42A, Cochrane, Sudbury and Timiskaming Districts	ODM GR 135 Map 2321 2322	 1:250 000 1:250 000

GOIF FOI NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
ODMNA	1974	Aeromagnetic Index of Ontario	ODMNA Map 2229	1:1 900 800
OGS	1984	Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Michaud Township	OGS Map 80 597	1:20 000 1:31 680
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Total Count, Timmins, NTS 42A	OGS Map 80 280 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Potassium (percent), Timmins, NTS 42A	OGS Map 80 281 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A	OGS Map 80 282 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A	OGS Map 80 283 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A	OGS Map 80 284 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/K Ratio, Timmins, NTS 42A	OGS Map 80 285 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eTh/K Ratio, Timmins, NTS 42A	OGS Map 80 286 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K, for line 62 (1), Timmins, NTS 42A	OGS Map 80 317 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K, for line 63 (1), Timmins, NTS 42A	OGS Map 80 318 GSC Map 35142G	1:250 000

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Author	Date	Title	Reference	Map Scale and/or Report Page
		GEOLOGICAL MAPS AND REPORTS		
Baker, C.L.	1981	Stratigraphy and Sedimentation in the Munro Esker, East of Kirkland Lake, Districts of Cochrane and Timiskaming	OGS MP 100	p.128-130
Baker, C.L.	1982	Drift Thickness of the Ramore Area, Cochrane and Timiskaming Districts	OGS Map P.2477	1:50 000
Baker, C.L.	1982	Sand and Gravel Resources of the Ramore Area, Cochrane and Timiskaming Districts	OGS Map P.2489	1:50 000
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Jensen, L.S.	1985	Precambrian Geology of the Ramore Area, Northeastern Part, District of Cochrane	OGS Map P.2861	1:15 840
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MICHAUD TOWNSHIP

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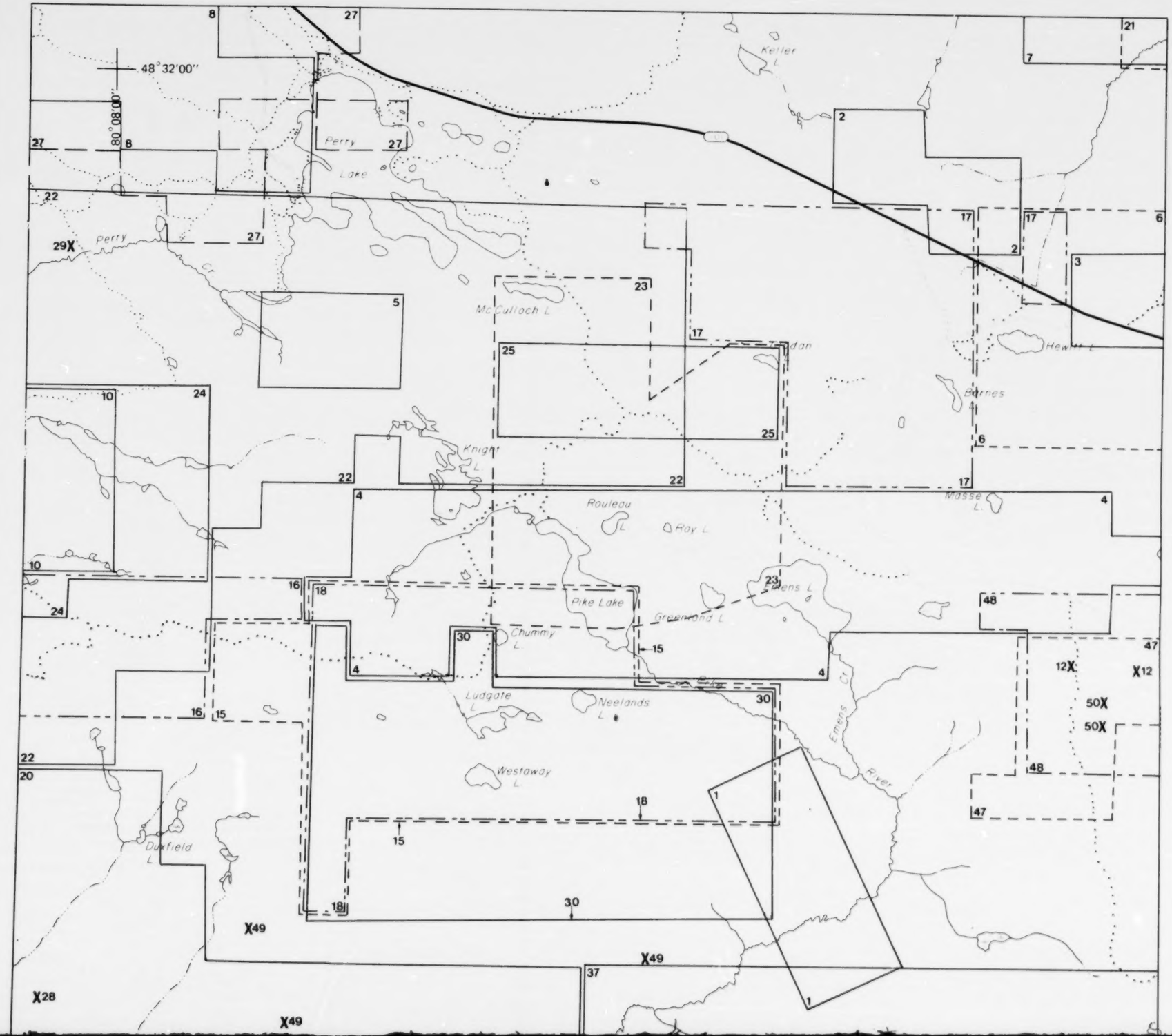


Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 382

(Map 1 of 3)

MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 382

(Map 1 of 3)

MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

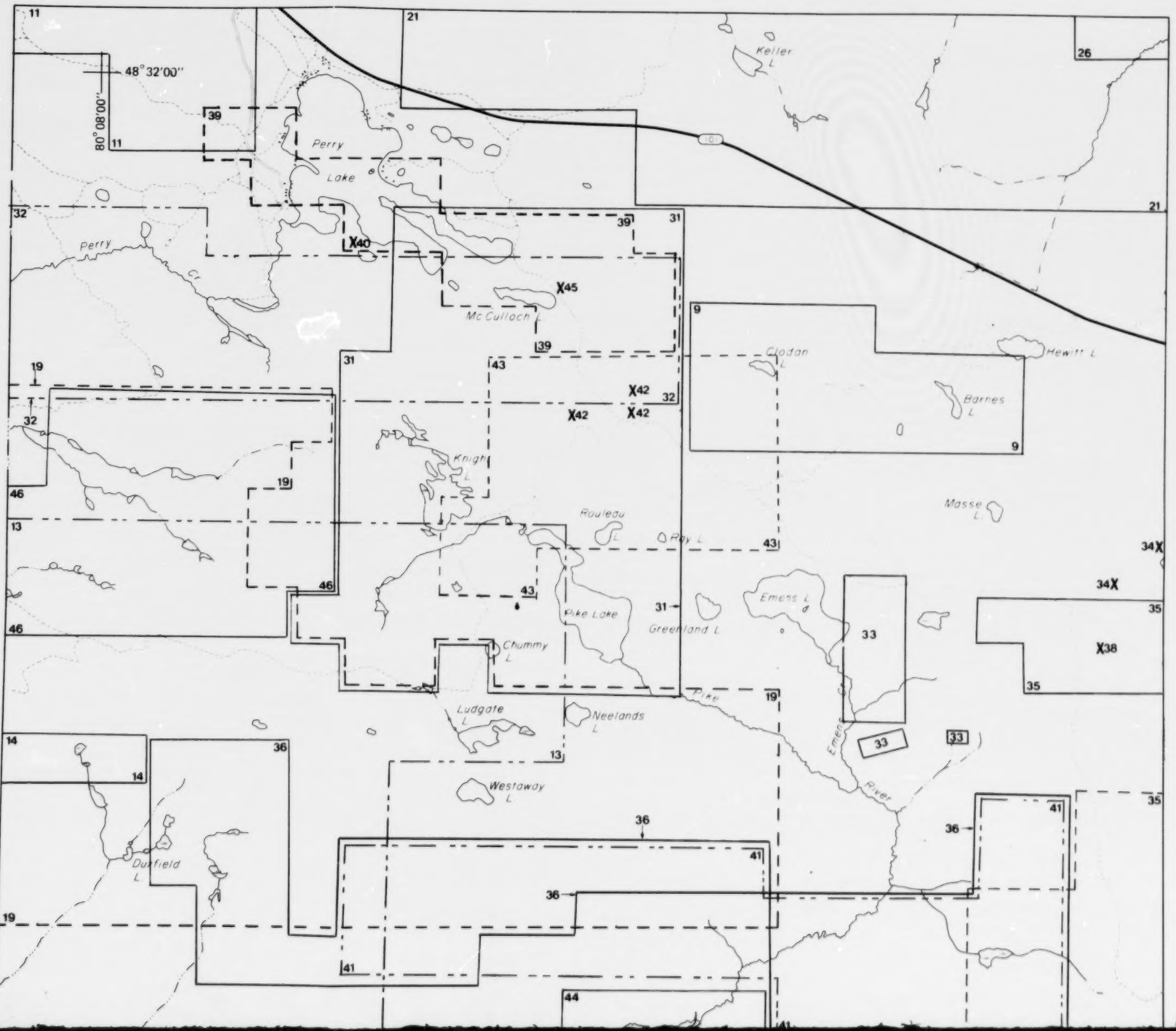
Perry
McCulloch L.
Knight L.
Rouleau L.
Ray L.
Pike Lake
Greenhand L.
Chummy L.
Ludgate L.
Neelands L.
Westaway L.
Dunfield L.
Barnes
Hewitt L.
Masse L.
Queens L.
Emms River

EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outlined. See listing in text pages.
- Small area exploration.
- File covers whole township or area

48°27'30"

80°01'00"



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ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 382

(Map 2 of 3)

MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 382

(Map 2 of 3)

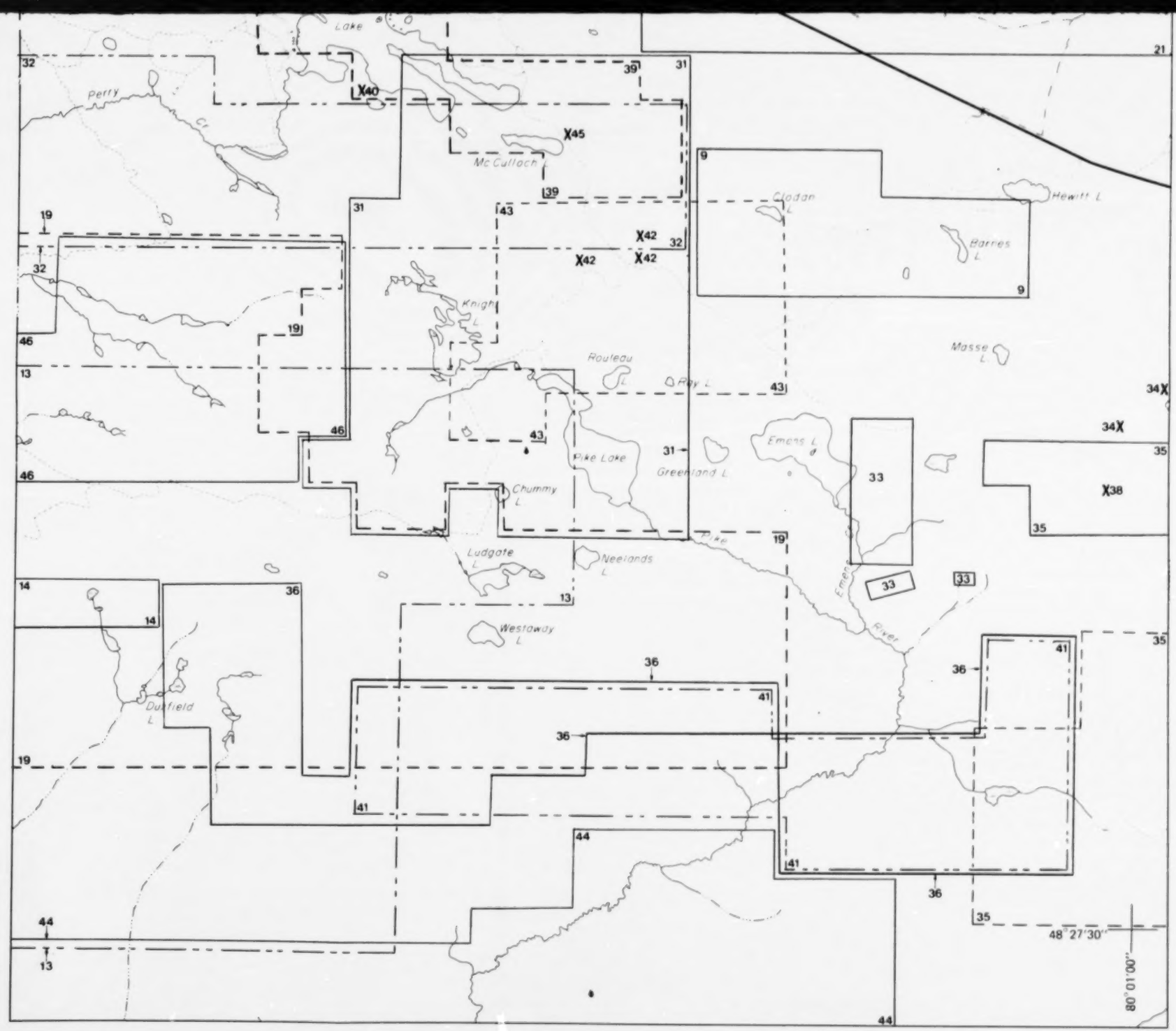
MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

- ■ ① ⑥ — Reference number is always inside work area outlined. See listing in text pages.
- ■ x ④ — Small area exploration.
- □ ★ — File covers whole township or area
- □ —

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

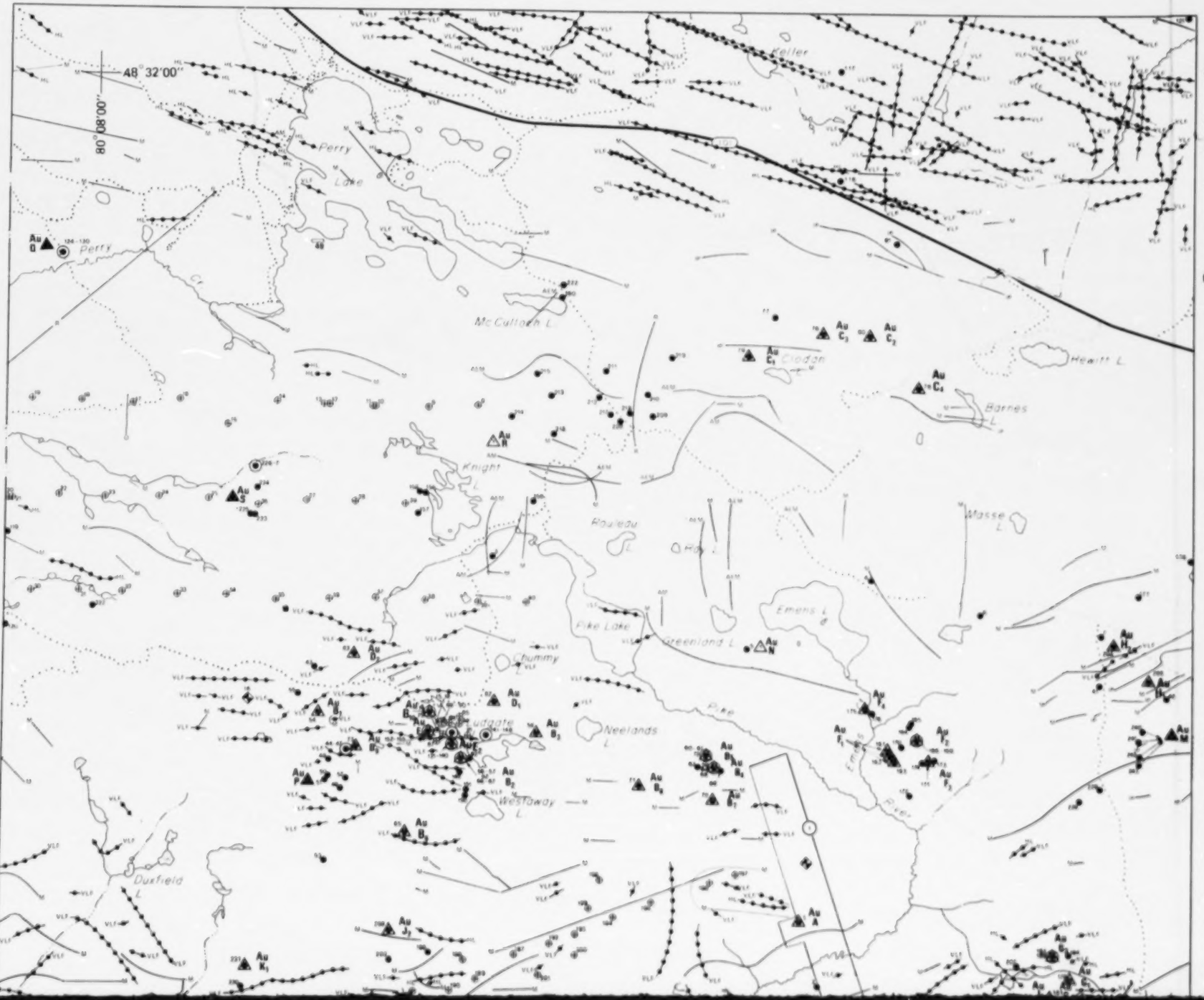
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq; Turam; JEM - Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- AEM — Airborne Electromagnetic Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Rock quarry



Ministry of Northern Development and Mines

Ontario

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ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 382

(Map 3 of 3)

MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ■ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter
- ■ cp A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ 2 — Location of single drillhole, with reference number
- ■ 2 — Location of closely spaced group of drillholes, with reference number

GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
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  (VL - Vertical loop; HL - Horizontal loop
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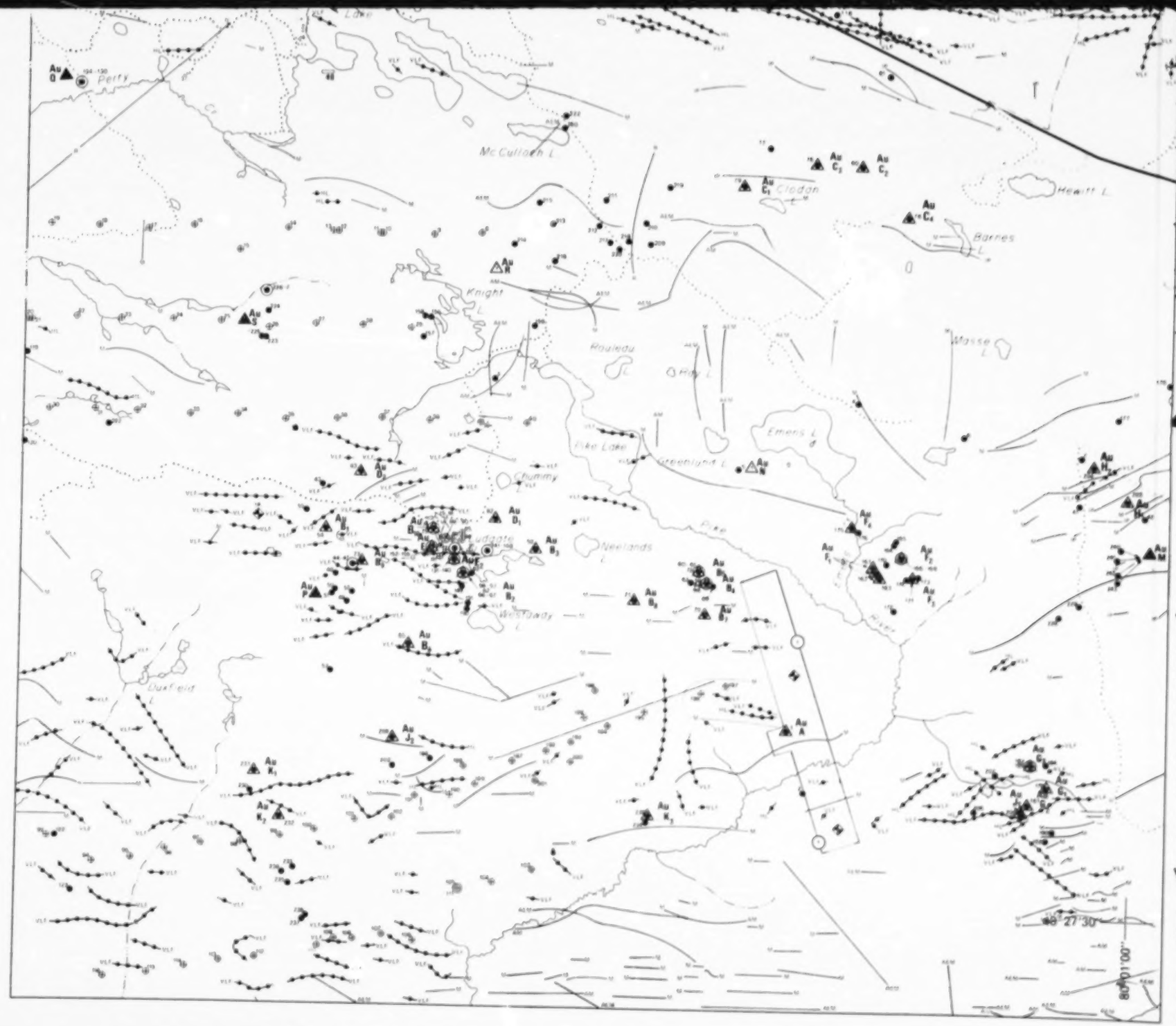
  Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly
- AEM — Airborne Electromagnetic Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 382

(Map 3 of 3)

MICHAUD TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

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- cp A. — Mineralized float with reference letter
- cp A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- 2 — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- 2 — Property with drillholes which have not been plotted on map, with reference number
- 2 — Reverse circulation drillhole; churn drilling, with reference number
- 2 — Location of closely spaced group of Reverse Circulation Drill Holes; Churn drilling, with reference number